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## ELECTRONIC WATERMARKING METHOD AND SYSTEM

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## Abstract

3     The present invention provides a watermarking method,  
4     apparatus and system for embedding additive information  
5     in digital data, in which one frame is defined as  
6     including samples extracted from digital data and a  
7     current frame is defined as a frame that is overlapped by  
8     samples of a preceding frame. Included are: a  
9     transformation unit, for multiplying a frame extracted  
10    from digital data by a window function and performing a  
11    Fourier transform on the digital data; an embedding unit,  
12    for employing bit information and a frequency band to  
13    change the amplitude of the frequency component in the  
14    digital data; a transformation unit, for performing an  
15    inverse Fourier transform to return the frequency  
16    component whose amplitude has been changed by the  
17    frequency domain embedding unit; and a frame generator,  
18    for multiplying the time domain signal and superimposing  
19    overlapped frames to generate a frame wherein the  
20    additive information is embedded.

21    [Selected Drawing] Fig. 1